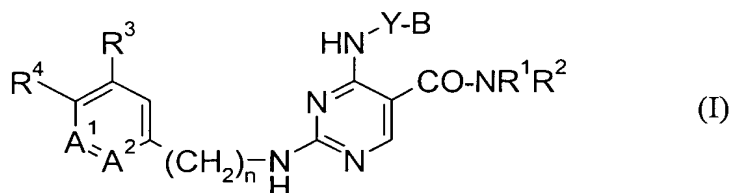


AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): A STAT 6 activation inhibitor which comprises a diaminopyrimidinecarboxamide derivative represented by a formula (I) or a salt thereof and a pharmaceutically acceptable carrier,



(symbols in the formula have the following meanings:

A¹: CR⁵ or N,

R⁵: -H, -lower alkyl, -O-lower alkyl or -halogen,

A²: CR⁶ or N,

R⁶: -H or -halogen,

R³: -R⁰, -lower alkyl substituted with halogen, -halogen,

-OR⁰, -S-lower alkyl, -CO-lower alkyl, -CO₂-lower alkyl,

-lower alkylene-OH, -hetero ring, -O-hetero ring, -N(R⁰)-hetero ring, -lower alkylene-hetero ring, -O-lower alkylene-hetero ring, -S-lower alkylene-hetero ring, -SO-lower alkylene-hetero ring, -SO₂-lower alkylene-hetero ring, -N(R⁰)-lower alkylene-hetero ring, -lower alkylene-CO-

hetero ring, -lower alkylene-N(R⁰)₂, -SO₂-N(R⁰)-lower alkyl or -lower alkylene-N(R⁰)-CO₂-lower alkylene-phenyl,

R⁰: the same or different from one another, and each is H or a lower alkyl,

n: 0 or 2,

R⁴: (i) when n = 2, -R⁰, -lower alkyl substituted with

halogen, -OR⁰, -N(R⁰)-CHO, -N(R⁰)-CO-lower alkyl or -N(R⁰)-SO₂-lower alkyl,

(ii) when n = 0, -H, -lower alkyl substituted with

halogen, -OH, -NH-CHO, -CON(R⁰)₂, -lower alkylene substituted with halogen-OH, -lower alkylene-NH₂, -lower alkylene-NHCONH₂, -lower alkylene-CO₂H, -lower alkylene-CO₂-lower alkyl, -lower alkylene-CN, or -CH(lower alkylene-OH)₂, or a group represented by a formula -X^a-R^{4a},

X^a: single bond, -O-, -CO-, -S-, -SO₂-, -N(R⁰)-, -N(R⁰)CO-, -N(R⁰)SO₂-, -lower alkylene-O-, -lower alkylene-N(R⁰)-, -lower alkylene-N(R⁰)CO-, -lower alkylene-N(R⁰)SO₂-, -lower alkylene-N(R⁰)CO₂-, -N(CO-R⁰)-, -N(SO₂-lower alkyl)-, -CON(R⁰)-, -lower alkylene-O-CO-, -lower alkenylene-CO-, -lower alkenylene-CON(R⁰)-, -lower alkenylene-CO₂-, -O-(CH₂)_k-cycloalkylene-(CH₂)_m-, -N(R⁰)-(CH₂)_k-cycloalkylene-(CH₂)_m-, -CO-(CH₂)_k-cycloalkylene-(CH₂)_m-, -CON(R⁰)-(CH₂)_k-cycloalkylene-(CH₂)_m- or -N(R⁰)CO-(CH₂)_k-cycloalkylene-(CH₂)_m-,

k and m, the same or different from each other, and each is 0, 1, 2, 3 or 4,

R^{4a}: lower alkyl, phenyl, hetero ring, cycloalkyl, lower alkylene-phenyl, lower alkylene-hetero ring, lower alkylene-OH, lower alkenyl, lower alkenylene-phenyl or lower alkenylene-hetero ring,

wherein the hetero rings in R^3 and R^{4a} may be substituted with 1 to 5 of lower alkyl, halogen, $-OR^0$, $-S$ -lower alkyl, $-S(O)$ -lower alkyl, $-SO_2$ -lower alkyl, lower alkylene- OR^0 , $-N(R^0)_2$, $-CO_2R^0$, $-CON(R^0)_2$, $-CN$, $-CHO$, $-SO_2N(R^0)_2$, $-N(R^0)-SO_2$ -lower alkyl, $-N(R^0)-CO-N(R^0)_2$, $-N(R^0)-CO_2$ -lower alkyl, $-N(R^0)-CO_2$ -cycloalkyl, $-NH-C(=NH)-NH$ -lower alkyl, $-NH-C(=N-CN)-NH$ -lower alkyl, hetero ring (said hetero ring may be substituted with 1 to 5 substituents selected from lower alkyl, OH and lower alkylene-OH), $-lower\ alkylene-NH-C(=NN)-NH_2$, $-O$ -phenyl, $-CO$ -phenyl, $-N(R^0)-CO$ -lower alkyl, $-N(R^0)-CO$ -lower alkylene- $N(R^0)_2$, $-lower\ alkylene-N(R^0)-CO$ -lower alkylene- $N(R^0)_2$, $-CO-N(R^0)-lower\ alkylene-N(R^0)_2$, $-CO$ -lower alkylene- $N(R^0)_2$, $-CO$ -lower alkylene- CO_2R^0 , $-lower\ alkylene-N(R^0)_2$, $-lower\ alkylene-CO_2R^0$, $-lower\ alkylene-CO-N(R^0)_2$, $-lower\ alkylene-N(R^0)-CO$ -lower alkyl, $-lower\ alkylene-N(R^0)-CO_2$ -lower alkyl, $-lower\ alkylene-N(R^0)-SO_2$ -lower alkyl, $-lower\ alkylene$ -hetero ring (said hetero ring may be substituted with 1 to 5 substituents selected from lower alkyl, OH and lower alkylene-OH), $-lower\ alkylene-O$ -lower alkylene-phenyl, $=N-O-R^0$ or oxo, and phenyl and cycloalkyl may be substituted with 1 to 5 of lower alkyl, OH, O -lower alkyl or $N(R^0)_2$, and wherein the lower alkylene in R^3 , R^4 , R^{4a} and X^a may be substituted with 1 to 5 of $-OR^0$, $-CO_2R^0$, $-CON(R^0)_2$, $-N(R^0)_2$, $-N(R^0)COR^0$ or hetero ring, or R^3 and R^4 may together form $*-N(R^7)-(CH_2)_2-$, $*(CH_2)_2-N(R^7)-$, $*-CH_2-N(R^7)-CH_2-$, $*-N(R^7)-(CH_2)_3-$, $*(CH_2)_3-N(R^7)-$, $*-CH_2-N(R^7)-(CH_2)_2-$, $*(CH_2)_2-N(R^7)-CH_2-$, $*-C(O)-N(R^7)-(CH_2)_2-$, $*(CH_2)_2-N(R^7)-C(O)-$, $*-N(R^7)-CH=CH-$, $*-CH=CH-N(R^7)-$,

*-N=CH-CH=CH-, *-CH=N-CH=CH-, *-CH=CH-N=CH-, *-CH=CH-CH=N-, *-N=CH-CH=N-, *-CH=N-N=CH-, *-N(R⁷)-N=CH-, *-CH=N-N(R⁷)-, *-O-CH₂-O-, *-O-(CH₂)₂-O-, *-O-(CH₂)₃-O-, *-O-(CH₂)₂-N(R⁷)-, *-(CH₂)₂-C(O)-, *-CH=CH-C(O)-O- or *-N=C(CF₃)-NH-,

wherein * indicates bonding to the position shown by R³,

R⁷: -H, -lower alkyl or -CO-lower alkyl,

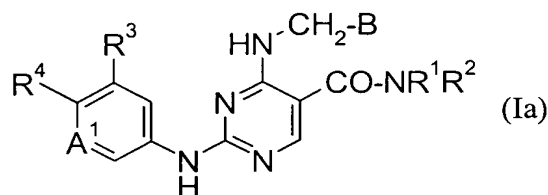
B: H, lower alkenyl, lower alkynyl, lower alkyl substituted with halogen, CN, S-lower alkyl, aryl which may have a substituent(s), cycloalkyl which may have a substituent(s) or hetero ring which may have a substituent(s),

Y: single bond; or lower alkylene which may be substituted with 1 to 5 groups selected from halogen, OH, O-lower alkyl, -NH₂, -NH-lower alkyl and -N(lower alkyl)₂, and

R¹ and R²: the same or different from each other, and each represents H, lower alkyl or O-lower alkyl which may have a substituent(s)).

2. (original): The STAT 6 activation inhibitor described in claim 1, which is a Th2 cell differentiation inhibitor.

3. (original): A diaminopyrimidinecarboxamide derivative represented by a formula (Ia) or a salt thereof,



(symbols in the formula have the following meanings:

A¹: CR⁵ or N,

R⁵: -H, -lower alkyl, -O-lower alkyl or -halogen,

R³: -R⁰, -lower alkyl substituted with halogen, -halogen,

-OR⁰, -S-lower alkyl, -CO-lower alkyl, -CO₂-lower alkyl,

-lower alkylene-OH, -saturated hetero ring, -X^b-heteroaryl, -X^b-saturated hetero ring, -X^b-heteroaryl, -lower alkylene-N(R⁰)₂, -SO₂-N(R⁰)-lower alkyl or -lower alkylene-N(R⁰)-CO₂-lower alkylene-phenyl,

X^b: -lower alkylene-, -O-lower alkylene-, -S-lower alkylene-, -SO-lower alkylene-, -SO₂-lower alkylene-,

-N(R⁰)-lower alkylene- or -lower alkylene-CO-,

R⁰: the same or different from one another, and each represents H or a lower alkyl,

R⁴: -X^a-saturated hetero ring, -lower alkylene-saturated hetero ring or -lower alkenylene-saturated hetero ring,

X^a: single bond, -O-, -CO-, -S-, -SO₂-, -N(R⁰)-,
-N(R⁰)CO-, -N(R⁰)SO₂-, -lower alkylene-O-, -lower alkylene-N(R⁰)-, -lower alkylene-N(R⁰)CO-
or -lower alkylene-N(R⁰)SO₂-, -lower alkylene-N(R⁰)CO₂-, -N(CO-R⁰)-, -N(SO₂-lower alkyl)-, -
CON(R⁰)-, -lower alkylene-O-CO-, -lower alkenylene-CO-, -lower alkenylene-CON(R⁰)-, -lower
alkenylene-CO₂-, -O-(CH₂)_k-cycloalkylene-(CH₂)_m-, -N(R⁰)-(CH₂)_k-cycloalkylene-(CH₂)_m-, -
CO-(CH₂)_k-cycloalkylene-(CH₂)_m-, -CON(R⁰)-(CH₂)_k-cycloalkylene-(CH₂)_m- or -N(R⁰)CO-
(CH₂)_k-cycloalkylene-(CH₂)_m-,

k and m: the same or different from each other, and each is 0, 1, 2, 3 or 4,

wherein the saturated hetero rings in R³ and R^{4a} may be substituted with 1 to 5 of lower alkyl, halogen, -OR⁰,

-S-lower alkyl, -S(O)-lower alkyl, -SO₂-lower alkyl, lower alkylene-OR⁰, -N(R⁰)₂, -CO₂R⁰, -CON(R⁰)₂, -CN, -CHO,
-SO₂N(R⁰)₂, -N(R⁰)-SO₂-lower alkyl, -N(R⁰)-CO-N(R⁰)₂, -N(R⁰)-CO₂-lower alkyl, -N(R⁰)-CO₂-cycloalkyl, -NH-C(=NH)-NH-lower alkyl, -NH-C(=N-CN)-NH-lower alkyl, saturated hetero ring (said hetero ring may be substituted with 1 to 5 substituents selected from lower alkyl, OH and lower alkylene-OH), heteroaryl, -lower alkylene-NH-C(=NN)-NH₂,
-O-phenyl, -CO-phenyl, -N(R⁰)-CO-lower alkyl, -N(R⁰)-CO-lower alkylene-N(R⁰)₂, -lower alkylene-N(R⁰)-CO-lower alkylene-N(R⁰)₂, -CO-N(R⁰)-lower alkylene-N(R⁰)₂, -CO-lower alkylene-N(R⁰)₂, -CO-lower alkylene-CO₂R⁰,
-lower alkylene-N(R⁰)₂, -lower alkylene-CO₂R⁰, -lower alkylene-CO-N(R⁰)₂, -lower alkylene-N(R⁰)-CO-lower alkyl,
-lower alkylene-N(R⁰)-CO₂-lower alkyl, -lower alkylene-N(R⁰)-SO₂-lower alkyl, -lower alkylene-hetero ring (said hetero ring may be substituted with 1 to 5 substituents selected from lower alkyl, OH and lower alkylene-OH),
-lower alkylene-O-lower alkylene-phenyl, =N-O-R⁰ or oxo, and phenyl and cycloalkyl may be substituted with 1 to 5 of lower alkyl, OH, O-lower alkyl or N(R⁰)₂, and
wherein the lower alkylene in R³, R⁴ and X^a may be substituted with 1 to 5 of -OR⁰, -CO₂R⁰, -CON(R⁰)₂, -N(R⁰)₂, -N(R⁰)COR⁰ or hetero ring, or
R³ and R⁴ may together form *-N(R⁷)-(CH₂)₂-, *-(CH₂)₂-N(R⁷)-, *-CH₂-N(R⁷)-CH₂-, *-N(R⁷)-(CH₂)₃-,
*-(CH₂)₃-N(R⁷)-, *-CH₂-N(R⁷)-(CH₂)₂-, *-(CH₂)₂-N(R⁷)-CH₂-,
*-C(O)-N(R⁷)-(CH₂)₂-, *-(CH₂)₂-N(R⁷)-C(O)-, *-N(R⁷)-CH=CH-, *-CH=CH-N(R⁷)-, *-N=CH-CH=CH-, *-CH=N-CH=CH-,

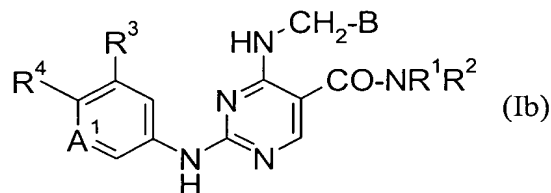
*-CH=CH-N=CH-, *-CH=CH-CH=N-, *-N=CH-CH=N-, *-CH=N-N=CH-, *-N(R⁷)-N=CH-, *-CH=N-N(R⁷)-, *-O-CH₂-O-, *-O-(CH₂)₂-O-, *-O-(CH₂)₃-O-, *-O-(CH₂)₂-N(R⁷)-, *-(CH₂)₂-C(O)-, *-CH=CH-C(O)-O- or *-N=C(CF₃)-NH-, wherein * indicates bonding to the position shown by R³,

R⁷: -H, -lower alkyl or -CO-lower alkyl,

B: aryl which may have a substituent(s) or heteroaryl which may have a substituent(s), and

R¹ and R²: the same or different from each other, and each represents H, lower alkyl or O-lower alkyl which may have a substituent(s)).

4. (original): A diaminopyrimidinecarboxamide derivative represented by a formula (Ib) or a salt thereof,



(symbols in the formula have the following meanings:

A¹: CR⁵ or N,

R⁵: -H, -lower alkyl, -O-lower alkyl or -halogen,

R³: -saturated hetero ring or -X^b-saturated hetero ring,

X^b: -lower alkylene-, -O-, -N(R⁰)-, -O-lower alkylene-, -S-lower alkylene-, -SO-lower alkylene-, -SO₂-lower alkylene-, -N(R⁰)-lower alkylene- or -lower alkylene-CO-,

R⁰: the same or different from one another, and each represents H or a lower alkyl,

R^4 : -H, -lower alkyl substituted with halogen, -OH, -NH-CHO, -CON(R^0)₂, -lower alkylene substituted with

halogen-OH, -lower alkylene-NH₂, -lower alkylene-NHCONH₂,

-lower alkylene-CO₂H, -lower alkylene-CO₂-lower alkyl,

-lower alkylene-CN, -CH(lower alkylene-OH)₂ or -X^a-R^{4a},

X^a: single bond, -O-, -CO-, -S-, -SO₂-, -N(R^0)-,

-N(R^0)CO-, -N(R^0)SO₂-, -lower alkylene-O-, -lower alkylene-N(R^0)-, -lower alkylene-N(R^0)CO-

or -lower alkylene-N(R^0)SO₂-, -lower alkylene-N(R^0)CO₂-, -N(CO- R^0)-, -N(SO₂-lower alkyl)-, -

CON(R^0)-, -lower alkylene-O-CO-, -lower alkenylene-CO-, -lower alkenylene-CON(R^0)-, -lower

alkenylene-CO₂-, -O-(CH₂)_k-cycloalkylene-(CH₂)_m-, -N(R^0)-(CH₂)_k-cycloalkylene-(CH₂)_m-, -

CO-(CH₂)_k-cycloalkylene-(CH₂)_m-, -CON(R^0)-(CH₂)_k-cycloalkylene-(CH₂)_m- or -N(R^0)CO-

(CH₂)_k-cycloalkylene-(CH₂)_m-,

k and m: the same or different from each other, and each is 0, 1, 2, 3 or 4,

R^{4a}: lower alkyl, phenyl, heteroaryl, cycloalkyl, lower alkylene-phenyl, lower alkylene-heteroaryl, lower alkylene-OH, lower alkenyl, lower alkenylene-phenyl or lower alkenylene-heteroaryl,

wherein the saturated hetero ring and heteroaryl in R³ and R^{4a} may be substituted with 1 to 5 of lower alkyl, halogen, -OR⁰, -S-lower alkyl, -S(O)-lower alkyl, -SO₂-lower alkyl, lower alkylene-OR⁰, -N(R^0)₂, -CO₂R⁰, -CON(R^0)₂, -CN, -CHO, -SO₂N(R^0)₂, -N(R^0)-SO₂-lower alkyl, -N(R^0)-CO-N(R^0)₂, -N(R^0)-CO₂-lower alkyl, -N(R^0)-CO₂-cycloalkyl, -NH-C(=NH)-NH-lower alkyl, -NH-C(=N-CN)-NH-lower alkyl, hetero ring (said hetero ring may be substituted with 1 to 5 substituents selected from lower alkyl, OH and lower alkylene-OH), -lower alkylene-NH-C(=NN)-NH₂, -O-phenyl,

-CO-phenyl, -N(R⁰)-CO-lower alkyl, -N(R⁰)-CO-lower alkylene-N(R⁰)₂, -lower alkylene-N(R⁰)-CO-lower alkylene-N(R⁰)₂, -CO-N(R⁰)-lower alkylene-N(R⁰)₂, -CO-lower alkylene-N(R⁰)₂, -CO-lower alkylene-CO₂R⁰, -lower alkylene-N(R⁰)₂, -lower alkylene-CO₂R⁰, -lower alkylene-CO-N(R⁰)₂, -lower alkylene-N(R⁰)-CO-lower alkyl, -lower alkylene-N(R⁰)-CO₂-lower alkyl, -lower alkylene-N(R⁰)-SO₂-lower alkyl, -lower alkylene-hetero ring (said hetero ring may be substituted with 1 to 5 substituents selected from lower alkyl, OH and lower alkylene-OH), -lower alkylene-O-lower alkylene-phenyl, =N-O-R⁰ or oxo, and phenyl and cycloalkyl may be substituted with 1 to 5 of lower alkyl, OH, O-lower alkyl or N(R⁰)₂, or

the lower alkylene in R³, R⁴, R^{4a} and X^a may be substituted with 1 to 5 of -OR⁰, -CO₂R⁰, -CON(R⁰)₂, -N(R⁰)₂, -N(R⁰)COR⁰ or hetero ring, or

R³ and R⁴ may together form *-N(R⁷)-(CH₂)₂-, *-(CH₂)₂-N(R⁷)-, *-CH₂-N(R⁷)-CH₂-, *-N(R⁷)-(CH₂)₃-,

*-(CH₂)₃-N(R⁷)-, *-CH₂-N(R⁷)-(CH₂)₂-, *-(CH₂)₂-N(R⁷)-CH₂-,

*-C(O)-N(R⁷)-(CH₂)₂-, *-(CH₂)₂-N(R⁷)-C(O)-, *-N(R⁷)-CH=CH-, *-CH=CH-N(R⁷)-, *-N=CH-CH=CH-, *-CH=N-CH=CH-, *-CH=CH-N=CH-, *-CH=CH-CH=N-, *-N=CH-CH=N-, *-CH=N-N=CH-, *-N(R⁷)-N=CH-, *-CH=N-N(R⁷)-, *-O-CH₂-O-, *-O-(CH₂)₂-O-, *-O-(CH₂)₃-O-, *-O-(CH₂)₂-N(R⁷)-, *-(CH₂)₂-C(O)-, *-CH=CH-C(O)-O- or *-N=C(CF₃)-NH-, wherein *

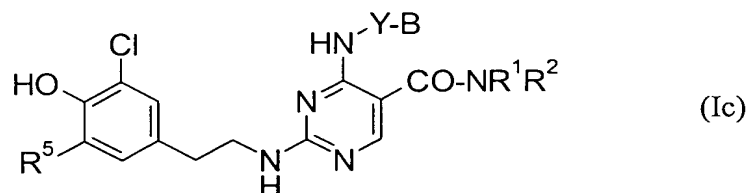
indicates bonding to the position shown by R³,

R⁷: -H, -lower alkyl or -CO-lower alkyl,

B: aryl which may have a substituent(s) or heteroaryl which may have a substituent(s), and

R¹ and R²: the same or different from each other, and each represents H, lower alkyl or O-lower alkyl which may have a substituent(s)).

5. (original): A diaminopyrimidinecarboxamide derivative represented by a formula (Ic) or a salt thereof,



(symbols in the formula have the following meanings:

R⁵: -H or -halogen,

B: phenyl which may have 1 to 3 substituents selected from lower alkyl and halogen,

Y: single bond or -CH₂-, and

R¹ and R²: the same or different from each other, and each represents H or lower alkyl which may have a substituent(s)).

6. (currently amended): A diaminopyrimidinecarboxamide selected from the group consisting of 4-benzylamino-2-[(4-morpholin-4-ylphenyl)amino]pyrimidine-5-carboxamide, 2-[(4-morpholin-4-ylphenyl)amino]-4-[(2,3,6-trifluorobenzyl)amino]pyrimidine-5-carboxamide, 4-[(2,6-difluorobenzyl)amino]-2-[(4-morpholin-4-ylphenyl)amino]pyrimidine-5-carboxamide, 4-[(2,6-difluorobenzyl)amino]-2-[(4-morpholin-4-ylphenyl)amino]pyrimidine-5-carboxamide, 4-[(2-methoxybenzyl)amino]-2-[(4-morpholin-4-ylphenyl)amino]pyrimidine-5-carboxamide, 4-[(2-fluoro-6-methoxybenzyl)amino]-2-[(4-morpholin-4-ylphenyl)amino]pyrimidine-5-carboxamide, 2-({4-[(1-methylpiperidin-3-yl)oxy]phenyl} amino)-4-[(2,3,6-trifluorobenzyl)amino]pyrimidine-5-carboxamide, 2-{[4-(1-azabicyclo[2.2.2]oct-3-

xyloxy)phenyl]amino}-4-[(2,3,6-trifluorobenzyl)amino]pyrimidine-5-carboxamide, 2-[(4-methyl-3,4-dihydro-2H-1,4-benzoxazin-7-yl)amino]-4-[(2,3,6-trifluorobenzyl)amino]pyrimidine-5-carboxamide, 2-({4-[4-(2-amino-2-oxoethyl)piperazin-1-yl]phenyl} amino)-4-[(2,3,6-trifluorobenzyl)amino]pyrimidine-5-carboxamide, 2-{[4-(2-morpholin-4-ylethoxy)phenyl]amino}-4-[(2,3,6-trifluorobenzyl)amino]pyrimidine-5-carboxamide, 2-{[4-(β -D-glucopyranosyloxy)phenyl]amino}-4-[(2,3,6-trifluorobenzyl)amino]pyrimidine-5-carboxamide, 4-benzylamino-2-{[2-(3-chloro-4-hydroxyphenyl)ethyl]amino}pyrimidine-5-carboxamide, 4-benzylamino-2-{[2-(3,5-dichloro-4-hydroxyphenyl)ethyl]amino}pyrimidine-5-carboxamide, 2-[(4-morpholin-4-ylphenyl)amino]-4-[(2-thienylmethyl)amino]pyrimidine-5-carboxamide, 4-{[(3-chloro-2-thienyl)methyl]amino}-2-[(4-morpholin-4-ylphenyl)amino]pyrimidine-5-carboxamide and 2-{[3-(2-morpholin-4-ylethyl)phenyl]amino}-4-[(2,3,6-trifluorobenzyl)amino]pyrimidine-5-carboxamide or salts thereof.

7. (original): A pharmaceutical composition which comprises the diaminopyrimidinecarboxamide derivative or a salt thereof described in claims 3 to 6 and a pharmaceutically acceptable carrier.

8. (original): The composition described in claim 7, which is a preventive or therapeutic agent for respiratory diseases.

9. (original): The composition described in claim 8, which is a preventive or therapeutic agent for asthma.

10. (original): The composition described in claim 8, which is a preventive or therapeutic agent for a chronic obstructive pulmonary disease.

11. (original): Use of a diaminopyrimidinecarboxamide derivative represented by the general formula (I) described in claim 1, or a salt thereof, for the manufacture of an STAT 6 activation inhibitor.

12. (original): Use of a diaminopyrimidinecarboxamide derivative represented by the general formula (I) described in claim 1, or a salt thereof, for the manufacture of a Th2 cell differentiation inhibitor.

13. (original): A method for inhibitory activity for STAT 6 activation, which comprises administering an effective amount of a diaminopyrimidinecarboxamide derivative represented by the general formula (I) described in claim 1, or a salt thereof, to a mammal.

14. (original): A method for inhibitory activity for Th2 cell differentiation, which comprises administering an effective amount of a diaminopyrimidinecarboxamide derivative represented by the general formula (I) described in claim 1, or a salt thereof, to a mammal.